

## Appendix A - Hardware Specs

### Introduction

Major features of the AlterPath PM8 are listed below:

- One 125VAC/15A power plug (NEMA 5-15P) or
- One 125VAC/20A power plug (NEMA 5-20P) or
- One 125VAC/20A power plug (NEMA L5-20P)
- Eight 125VAC/15A power receptacles (NEMA 5-15R)
- 128 KB flash memory
- 8 KB RAM
- Two RJ-45 RS-232 interfaces
- 125VAC/20A circuit breaker with "press to reset" function
- Vertical mounting ("zero U")
- 2-digit 7-segment display monitoring Global current
- LED monitoring ON/OFF for each port
- Audible over current alarm
- 8-bit Microcontroller-equipped

Major features of the AlterPath PM8i are listed below:

- One 250VAC/8A power plug (IEC320-C14)
- Eight 250VAC/8A power receptacle (IEC320-C14)
- 128 KB flash memory
- 8 KB RAM
- Two RJ-45 RS-232 interfaces
- 250VAC/10A supplementary protector with "press to reset" function
- Vertical (zero U) & Horizontal (1.5 U) mounting

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- 2-digit 7-segment display monitoring global current
- LED monitoring ON/OFF for each port
- Audible over current alarm
- 8-bit Microcontroller-equipped

### Circuit Breaker

The AlterPath PM uses a 20 Amp (PM8-20A and PM8-L20A), 15 Amp (PM8-15A), and 10 Amp (PM8i) circuit breaker. The following table shows the circuit breaker trip time for all PM models. ("i" stands for IEC connector.)

Table 1: Circuit Breaker Trip Time

Current Load	Trip Time
100%	No Trip
150%	Trip in 1 hour
200%	4 - 40 seconds
300%	1.2 to 12 seconds
400%	0.5 to 5.5 seconds
500%	0.4 to 3.5 seconds
600%	0.3 to 2.5 seconds

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### Electrical Specifications

The following tables illustrate the AlterPath PM's electrical specifications:

**Table 2: AlterPath PM8 Electrical Specifications - 15 Amp version**

Characteristics	Specifications
Input Voltage	100 - 120 VAC
Max Output Current Total	12A
Max Output Current Each Outlet	12A
Operating Temperature	32 - 122 ° F (0 - 50 °C)
Relative Humidity	5% to 95%, non-condensing
Weight	6.1 lbs (2.8 kg)
Physical Dimensions (W x D x H)	39.6 x 1.7 x 2.2 in (100.6 x 4.3 x 5.6 cm)

**Table 3: AlterPath PM8 Electrical Specifications - 20 Amp version**

Characteristics	Specifications
Input Voltage	100 - 120 VAC
Max Output Current Total	16A
Max Output Current Each Outlet	16A
Operating Temperature	32 - 122 ° F (0 - 50 °C)
Relative Humidity	5% to 95%, non-condensing
Weight	6.1 lbs (2.8 kg)
Physical Dimensions (W x D x H)	39.6 x 1.7 x 2.2 in (100.6 x 4.3 x 5.6 cm)

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Table 4: AlterPath PM8i Electrical Specifications - 10 Amp version

Characteristics	Specifications
Input Voltage	200 - 240 VAC
Max Output Current Total	8A
Max Output Current Each Outlet	8A
Operating Temperature	50 - 122 ° F (10 - 50 °C)
Relative Humidity	5% to 95%, non-condensing
Weight	5 lbs (2.3 kg)
Physical Dimensions (W x D x H)	17 x 3.7 x 2.63 in (43.2 x 9.4 x 6.7 cm)

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### Interface Pinouts

The following table illustrates the AlterPath PM's pinouts for the IN and OUT RS-232 serial ports (RJ-45F connectors).

Table 5: Pinouts for IN and OUT RS-232 serial ports

Signal	Name/Function	I/O	IN Pin	OUT Pin
RTS	Request to Send	(O)	5	1
DTR	Data Terminal Ready	(O)	7	2
TxD	Transmit Data	(O)	6	3
Gnd	Signal Ground		4	4
CTS	Clear To Send	(I)	1	5
RxD	Receive Data	(I)	3	6
DCD	Data Carrier Detect	(I)	2	7
DSR	Data Set Ready	(I)	8	8

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